

INTERNATIONAL SEARCH REPORT

International application No.
PCT/SE 2004/000901

A. CLASSIFICATION OF SUBJECT MATTER

IPC7: C07D 417/12, C07D 417/14, C07D 401/04, C07D 403/04, C07D 403/14,
 C07D 413/04, C07D 413/14, A61K 31/541, 31/54, A61P 11/00, 25/28, 25/00, 9/00
 According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC7: C07D, A61K, A61P

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

SE, DK, FI, NO classes as above

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

WPI-DATA, EPO-INTERNAL, PAJ, CHEM.ABS.DATA

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	Bioorganic & Medicinal Chemistry Letters, Vol. 13, Issue 13, 7 July 2003, A. Roderick MacKenzie et al: "4-Amino-2-(aryl)-butylbenzamides and Their conformationally constrained analogues. Potent antagonists of the human neurokinin-2 (NK2) receptor", pages 2211-2215	1-32
X	WO 0020003 A1 (ZENECA LIMITED), 13 April 2000 (13.04.2000)	1-32
X	WO 0002859 A1 (ZENECA LIMITED), 20 January 2000 (20.01.2000)	1-32

 Further documents are listed in the continuation of Box C. See patent family annex.

* Special categories of cited documents:	
"A"	document defining the general state of the art which is not considered to be of particular relevance
"B"	earlier application or patent but published on or after the international filing date
"L"	document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
"O"	document referring to an oral disclosure, use, exhibition or other means
"P"	document published prior to the international filing date but later than the priority date claimed
"T"	later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
"X"	document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
"Y"	document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
"&"	document member of the same patent family

Date of the actual completion of the international search 7 October 2004	Date of mailing of the international search report 02-12-2004
Name and mailing address of the ISA/ Swedish Patent Office Box 5055, S-102 42 STOCKHOLM Facsimile No. +46 8 666 02 86	Authorized officer EVA JOHANSSON/BS Telephone No. +46 8 782 25 00

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C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	EP 0625509 A1 (ZENECA LIMITED), 23 November 1994 (23.11.1994) --	1-32
A	WO 0034243 A1 (ASTRAZENECA UK LIMITED), 15 June 2000 (15.06.2000)	1-23, 25-32
X	--	24
A	EP 0630887 A1 (ZENECA LIMITED), 28 December 1994 (28.12.1994) --	1-32
A	WO 9727185 A1 (PFIZER RESEARCH AND DEVELOPMENT COMPANY), 31 July 1997 (31.07.1997) --	1-32
A	US 6013652 A (MACCOSS ET AL), 11 January 2000 (11.01.2000) --	24
A	WO 9610568 A1 (MERCK & CO., INC.), 11 April 1996 (11.04.1996) -----	24

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Box No. II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:

2. Claims Nos.: 28-29
because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:
Claims 28-29 relate to methods of treatment of the human or animal body by surgery or by therapy or diagnostic methods

3. Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box No. III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

The International Search Authority considers that there are two inventions covered by the claims indicated as follows:

I: Claims: 1-32 directed to novel azetidine derivatives and the intermediate with formula (IV) for those compounds

.../...

1. As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.
2. As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:

4. No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.: 1-23, part 24, 25-32

Remark on Protest

The additional search fees were accompanied by the applicant's protest.
 No protest accompanied the payment of additional search fees.

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Box II.2

practiced on the human or animal body (PCT Rule 39.1(iv)). Nevertheless, a search has been executed for these claims. The search has been based on the alleged effects of the compounds or compositions.

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Box III

mentioned in claim 24

II: Claim 24 directed to the intermediate with formula (VI)
for those compounds mentioned in the claim

The ISA has carried out a partial search which relates to
invention I mentioned above.

The applicant is invited to pay an additional fee for of the
inventions II as listed above.

The present application has been considered to contain two
inventions which are not linked such that they form a single
general inventive concept, as required by Rules 13.1, 13.2 and
13.3 PCT for the following reasons:

Invention I relates novel therapeutical compounds with formula
I, which are neurokinin-receptor antagonists and the
intermediates with formula (IV) and (V).

Invention II relates to different intermediates.

In order to fulfil the requirements of unity of invention, it
is necessary that the intermediate compounds are closely
interconnected with the end products. Such close connection
requires that the essential structural part of the end product
is incorporated by the intermediate compound. However, the
present application lacks a single general inventive concept
based on the above principle. This leads to the presence of
the subjects listed above, each falling under its own
restricted inventive concept.

As both problems and solutions are technically so different,
no single general concept can be formulated based on the
technical features of the inventions. Consequently, the
requirements of Rule 13.1 PCT are not met.

It was investigated under Rule 13:2 if any further features,
either in the claims or derivable from the description, could
be considered as a same or corresponding feature and which
could be considered a special technical feature establishing a
technical link between the (two) groups of inventions. In
particular it was investigated if ... (eventuellt samband mellan
de olika uppfinningarna).

No such features were identified.

Consequently, two groups of inventions are not so linked as to
form a single general inventive concept as required by Rule
13.1 PCT.

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Information on patent family members

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				CA	2199621	A	11/04/1996
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